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NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS

Newsletter

NAEB

MARCH 1956

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TELEVISION AROUND THE WORLD

The Bermuda Parliament is considering a bill which would prohibit erection of television receiving antennas outdoors or indoors where visible through a door, window or ordinary opening in the building to persons outside.

Latest information indicates that there are 250,000 sets registered and declared in France and possibly as many as 350,000 because of the length of time that it takes to register a set. It is expected that television transmission will completely cover France by the end of 1958.

Sixteen new stations have joined Eurovision network in the past year. To date, according to latest reports on the international hookup for programming in Europe, a total of 60 stations in 10 European countries exchange programs. Included is a daily service between France and Belgium and frequent exchanges between Belgium, Holland, Germany, and Switzerland.

(Excerpt from Du Mont Dispatch, January, 1956)

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HEADQUARTERS NEWS

CHANGE IN NETWORK MANAGER ANNOUNCED

TO: NAEB Members

FROM: John Holt

This will be very nearly my last letter from 14 Gregory Hall. Call it officially my last letter as Network Manager.

It has been a very fast four years and nine months. In many ways, I'm sorry to bring it to a close, but I've come to that time when various other plans and obligations take priority. Bob Underwood, our Placement Officer, will be the new Network Manager; and all of you, I know, will help him over the hump of taking on new work.

Watching and participating in the development of the NAEB and its Network and other projects has been a valuable and exciting experience for me. When you have spent almost five years in an organization like this, doing everything from wrapping packages to planning distribution schedules, when you have met members from all over the country, corresponded, discussed, debated, cheered, griped, partied, etc., with them, you find yourself, unsurprisingly, with a certain debt of permanent interest and loyalty.

On the other hand, five years is an investment, and the NAEB can't pay me off with a final check. Your continuing efforts toward maintaining and improving educational broadcasting as long as you stay in the game -- that's my billing. I know you people, and I know I'll collect.

From time to time, as I get about, I intend to look up as many of you as I can. See you around.

Sincerely,

John

John Holt

New Manager -- Robert E. Underwood, Jr.

This statement must be of necessity a brief one, as the Newsletter deadline is but a few minutes away. Let me say, however, that despite the difficulties involved I appreciate the opportunity to serve in a double capacity, as it will permit me to play a more active role in the promotion and expansion of educational broadcasting.

I am confident that with the cooperation of all concerned both the Network and the Placement Service can realize the highest ambitions of those who brought them into being. I trust that I will be able to carry out my responsibilities satisfactorily. I promise you that I shall do my best.

NAEB Acquires New Stenographer

We are pleased to announce the presence of a new young lady to our office staff. She is Mrs. Robert Berg (Connie to us) and her task will be to assist Underwood in his "double life."

Connie comes to us from TWA where she spent 6 months as a hostess. Also, she has seven years experience (full and part time) with Stein Brothers Paper Box Company of Chicago. Her husband, Bob, is a senior here studying Physics.

Glad to have you with us, Connie.

*****

The Honorable Peter F. Mack, Jr. of Illinois presented three NAEB resolutions in the House of Representatives on February 8, 1956. These resolutions which were passed at the Chicago convention urge the Federal Communications Commission to continue the FM band, to retain channels set aside for educational television and to allow educational channels to participate in any form of subscription television if and when it is authorized.

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Additional subscriptions to the NAEB Newsletter are available for $2.50.

TEN COMMANDMENTS FOR EDUCATIONAL TELEVISION

By William Levenson
(Assistant Superintendent of Schools, Cleveland)

To you who are contemplating entering the field of television, these Ten Commandments of Educational Television are suggested.

I Thou shalt awaken to the compelling power of this miracle, television.

II Thou shalt get thee busy now with what thou hast, my brethren, even as thou dost dream of' thine own station.

III Thou shalt not wait for an angel laden with gifts ere thou startest telecasting.

IV Thou shalt enlist the help of thy commercial TV brethren, for are they not licensed "in the public interest, convenience, or necessity"?

V Thou shalt seek the best time available and, here too, the hours of the night are most attractive.

VI Thou shalt offer the best for tis truly fatal to parade mediocrity.

VII Thou shalt hold integrity as thy watchword lest thy Hooperating fade into darkness.

VIII Thou shalt show it, not talk it, whatever thy subject shall be. Was not one Tower of Babel enough? Rememberest thou what Confucius say about one picture.

IX Thou shalt build thy program around interesting personalities, not just attractive ideas.

X Thou shalt be both a showman and an educator, else thou wilst speak in a still, small voice only to cameramen.

RESEARCH

Contrary to popular opinion the film clip is not the best form for television news presentation according to results of a recent study by Erling S. Jorgensen at the University of Wisconsin. The newscaster alone on the camera, regarded by many as the least effective form of presenting television news, rated first in audience approval. The use of still pictures was rated second best. The study also indicated that material presented last was learned best, and material presented first was learned least. The content of the study was kept constant while the experiment changed techniques of presentation. The subjects were drawn from college students, air force enlisted men, and community center club members.

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An experiment to determine if television can be used in an undergraduate general education program to teach students who stay at home is being conducted by the San Francisco State College. Financed by a $125,000 grant from the Fund for the Advancement of Education, the carefully-planned evaluation program will measure the learning results of the television students as compared with those receiving instruction in the conventional sense in the classroom. Initially the college plans to experiment with four courses: economics, psychology, creative arts and English (basic communications).

*****

Steps were taken the last of January to launch a coordinated program of surveys and studies dealing with the educational TV viewer - his expectations, preferences, viewing habits, gratifications, and other characteristics. The plan was outlined at a research conference held in Ann Arbor, Michigan, January 27-28 at the invitation of the Educational Television and Radio Center. Universities participating were Houston, Michigan State, North Carolina, Northwestern, St. Louis, Stanford, Washington (Seattle), and Wisconsin.

Nearly 500 students are participating during the current winter term in Michigan State University's first experiment in instruction by closed-circuit television. The students are enrolled in classes of educational psychology, introductory chemistry and communication skills. Although each class varies as to the total amount of instruction given over the closed-circuit system, the experiment basically operates this way:

The instructor and two cameras -- one for close-ups and the other for distance shots -- are located in the auditorium of the university's Giltner Hall. Students, in differently sized groups, are located in the auditorium and four classrooms within the building. A total of eight monitors, with 24-inch screens, are located in the auditorium and the viewing rooms. The circuits also provide for questions from the various rooms.

Although the project is M.S.U.'s first venture into closed-circuit television for classroom use, the university has previously presented telecourses over WKAR-TV.

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GENERAL NEWS

The Twin City Area Television Corp. of Minneapolis-St. Paul, Minnesota, applied February 13 to the Communications Commission for an educational TV station, to operate on Channel 2. The corporation, a non-profit citizens' group with a $100,000 Ford Foundation grant, proposes to build the station on the University of Minnesota campus.

(Associated Press, February 13)

*****

An estimated 300 high school and college students and teachers will take part in Michigan State University's 11th annual Radio and Television Conference March 10. Sponsored by the university's Department of Speech, the conference will feature key figures from Michigan radio and television stations as speakers and consultants.

The International Folk Music Council, planning the third international program for 1956, has invited broadcast programs on the theme, "Songs and Music connected with Marriage Ceremonies." For further information write to Miss Maud Karpeles, Honorary Secretary, 12 Clorane Gardens, London, N.W. 3, England.

*****

SCRIPTS NEEDED

Headquarters received the following request from Stuart L. Hannon, Deputy Program Director, Radio Free Europe, 110 West 57th Street, New York 19, New York: "We have a growing need of educational and scientific radio scripts as well as Americana, which delineates clearly and dramatically the strength and continuity of American democratic institutions. Since many of these scripts are timeless, we are getting some from the back files of major networks. It has occurred to me that educational stations throughout the nation, and perhaps your own headquarters, may have material which has already been aired and of no further use to domestic stations. Any such material which we could use for translation and broadcast to our captive audiences would be appreciated. We would gladly pay shipping charges from stations anywhere in the nation which might be willing to pass on to us such scripts." Any help that you can give will be greatly appreciated by Mr. Hannon.

*****

"Cashiers d'Etudes de Radio-Television," a project underwritten by the Radiodiffusion Francaise, is in need of original articles in the field of Communications Research and related fields. The journal, which is published by Bernard Blin and Jean Tardieu at the Centre d'Etudes de Radio-Television, 37 Rue de l'Universite, Paris 7e, France would welcome receiving any such articles.

*****

The February issue of The Writer included an article by Herbert Prescott on educational broadcasters need for suitable scripts. The article, designed for the guidance of writers, included information on several NAEB members, indicating the types of scripts that were specifically needed.

The National Project in Agricultural Communications has available the report and kinescopes taken from the Agriculture TV Clinic last fall. The report is available from the National Project in Agricultural Communications, Wells Hall, Michigan State University, East Lansing, Michigan for $3.00. The kines are available either on rental or sale basis from the same address.

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The Committee on Educational Television of the National Social Welfare Assembly has announced a change in their name to the Committee on Education by Television. The change of name reflects the purpose of the Assembly to increase the knowledge of use of both commercial and noncommercial stations by welfare agencies.

*****

The Ninth Annual Western Radio and Television Conference was held this year on the campus of San Francisco State College, February 23-25. The Conference, which was organized in 1947, is for the specific purpose of providing an annual meeting on the West Coast where those who share an interest in the educational and public service aspects of broadcasting might discuss ways in which these services can be continually improved and made more effective.

* * * *

SCHOLARSHIPS AND WORKSHOPS

The University of Miami, Florida, will be offering four 3-week workshops, two in Television Production and two in Film Production, this summer. The Introductory TV Workshop will take place June 18-July 6 with the Advanced TV Workshop starting July 7 and continuing to July 26. The Introductory Film Workshop will start July 27 and run through August 13 with the Advanced Film Workshop immediately following and running through August 31. These workshops are designed primarily for persons already graduated from college who need to gain an understanding of television or film production in a short time by means of a highly intensive, practical course. The workshops can be taken for three credits by those eligible. For further information write to Sydney Head, Chairman, Radio-TV Film Department, University of Miami, Coral Gables, Florida.

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Michigan State University will hold its Sixth Annual Summer Television Workshop between August 6 and August 24 at East Lansing in 1956. The Workshop will cover production, production laboratory, programming, station management and television directing. The workshop may be taken either for credit or non-credit. For further information write to William H. Tomlinson, Co-director, Television Summer Workshop, Department of Speech, Michigan State University, East Lansing, Michigan.

*****

Reporting a gratifying response to the second annual AWRT Scholarship competition, Gertrude Broderick, Scholarship Chairman, announced that applicants represent 28 different colleges from various parts of the country. American Women in Radio and Television, Inc. established the annual scholarship in 1955, with $500 to be awarded each year to a woman student enrolled in her junior year at an accredited American college or university which offers a degree or elective major in radio and/or television. Winner of the 1956 AWRT Scholarship will be announced at the annual Spring convention of the professional women's organization (April 26-29) in the Hotel Somerset, Boston. The winner will be a guest of the convention with all expenses paid by AWRT.

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The 23rd Writers' Conference in the Rocky Mountains, sponsored by the University of Colorado, will be held at Boulder, Colorado between July 23 and August 10, 1956. Part of the Conference will be devoted to a Television Drama Workshop which is to be conducted by Mr. Harry Muheim, teacher of creative writing at New York University and author of a number of successful TV dramas. This portion of the Conference will take place between July 30 and August 10 with Mr. Muheim using kinescopes and scripts furnished by NBC.

*****

Competition for the Father Felix Varela Fellowship for study in Cuba is open to American graduate students it was announced February 16 by Mr. Kenneth Holland, President of the Institute of International Education, 1 East 67th Street, New York City. Offered by the Cuban-American Cultural Institute, the fellowship is good for study at the University of Havana during the 1956-57 academic year. Closing date for the competition is April 1, 1956. The award covers tuition and most maintenance expenses. The successful applicant must provide his own travel plus funds for incidentals and other expenses. Applications may be secured from the United States Student Department of the Institute of International Education, 1 East 67th Street, New York 21, New York.

NEWS OF MEMBERS

General News

A 30-minute color film in sound, showing operations of WKAR-TV, the Michigan State University television station, has been produced for showings to groups interested in educational TV. Titled "On the Air," the film shows equipment, samplings of the live shows produced and operational procedures of Michigan's first educational television outlet. Prints may be obtained by addressing WKAR-TV, Michigan State University, East Lansing, Michigan.

WOSU-TV, Ohio State University, began operation February 20. Frederic W. Heimberger, Vice President of Ohio State, marked the opening of the television station in an address pointed towards the potentials of educational television. Dr. Heimberger remarked, "....It is our firm conviction that, with proper development, this new medium of education by electronics has possibilities almost beyond imagination."

*****

KUOW (FM), the University of Washington station, will take part in week-long dedication ceremonies of the university's new $1,500,000 Communications Building April 2-7. Special broadcasts, tours of the building, and a broadcasters' meeting will highlight radio's place in the dedication week. Distinguished speakers will be Marquis Childs and Dr. Gerald W. Johnson.

Visiting radio and television people will be particularly interested in the top floor of the building, new home of KUOW and all classes in radio-TV. The station's three studios, associated control and audition rooms, recording room, library, shops, and offices will be on display, as will the news room with its own studio and control room, the classroom-studio-control room, the student seminar room, and radio-TV offices.

Invitations to the ceremonies are being sent to communications leaders throughout the country, and Ed Adams urges all NAEB members to come and join in the festivities.

*****

Formal dedication of the University of Illinois' educational television station, WILL-TV, was made January 25 by Dr. David Dodds Henry, President of the University. The dedicatory program was telecast on Channel 12 at that time.

*****

The Annual Report of the University of Wisconsin Radio-Television Committee has been completed and turned over to the Secretary of the Faculty. Mimeographed copies of the complete report and the condensed version are available and may be obtained by writing Harold Engel, Station WHA, University of Wisconsin, Madison, Wisconsin.

PERSONNEL

The appointment of Peter Hollander, of New York City, as film director-cameraman for WGBH-TV was announced February 1 by Parker Wheatley, general manager of Boston's noncommercial educational television station. For the past three years, Mr. Hollander has been manager of the New York office of Kinesis, Inc., a documentary-educational film distribution company.

PROGRAMS

KCTS, Seattle, in addition to their schedule of programs for classroom viewing broadcasts another group of programs, designed especially for teachers. These teacher-training telecasts are presented in the afternoon and offer assistance to teachers in various areas and grade levels. One program in this series is "Teaching Elementary Science" which features outstanding teachers from the Seattle Public Schools demonstrating their classroom practice. Methods of instruction for grades one through six are covered with two programs devoted to each grade.

*****

Featuring outstanding talent, a special program of "American Negro Artists" was presented on the New York Municipal Broadcasting System, WNYC, February 12 as a major attraction of the opening day of the 17th Annual WNYC American Music Festival. The program was one of several in the 11-day Festival series featuring a specific group, as a tribute to the important role played by different cultural groups in America's musical heritage. Featured on the program devoted to American Negro artists were Robert Pritchard, pianist; Carl White, baritone; Charlotte Wesley Holloman, soprano; Laurence Watson, tenor; and the George McClain Chorale.

*****

Wayne University began offering three courses for credit on television February 6. This is the first time Wayne has conducted academic classes on television. All three courses are being telecast over WTVS, Detroit's educational television station. Courses offered are Parliamentary Law, Conversational French, and Our Prehistoric Ancestors.

Dr. Mortimer Adler, world-famous American philosopher, began a third series of 13 new programs titled The Great Ideas on KQED, San Francisco, February 6. In his first topic, Dr. Adler discussed "Punishment"--its justifications...and the inevitable questions that surround it.

A labor-management bargaining session, normally held in secret, was shown in a KQED premiere January 24. Representing the first film ever made of an actual collective bargaining session, the hour-long show is entitled "You Are There at the Bargaining Table." The film was made from a closed-circuit telecast in Chicago. The one-time-only program featured some 30 representatives of union and management in discussion over fringe benefits, wage rates, and incentive pay plans. An intermittent commentary pointed out the tactics used by the two sides and the principles illustrated.

*****

With three successful semesters behind it, WQED's (Pittsburgh) Adult School of the Air opened its second semester of teleclasses February 6 with accelerated courses enabling adults to earn a diploma in half the regular time. The half hour courses are offered every week day evening at 7 p.m. by selected instructors trained for television teaching. The subjects offered are Senior Science, Economics and Economic Geography, U.S. History, English and Spanish.

*****

The University of Kansas City is presenting "Much Ado About Shakespeare" over commercial station KCMO-TV. Carolyn Benton Cockefair, a teacher and lecturer, leads the discussion with a studio audience of four or five people. Initially the studio audience consisted of 12 people, however it was found that the smaller number in an informal atmosphere was more effective. Dr. Cj Stevens, Director of Radio and Television, is co-producing the series with Mr. Sam Scott, Instructor of Speech and Radio.

*****

Please send any changes in mailing address to Mrs. Janet Strandjord, 14 Gregory Hall, Urbana, Illinois.

TV Technical Tips No. 18
by
Cecil S. Bidlack, NAEB TV Engineer

This month we are publishing for the first time the proposed NAEB Tape Testing Program as outlined by the NAEB Engineering Committee. It will be found on page 18 of this Newsletter. We are placing it on a separate page so that we may run extra copies for those requesting them. We shall be happy to have your comments on this proposal or you may send them direct to Carl Menzer at WSUI.

Incidentally Carl and Mrs. Menzer left February 13 for a month's vacation in Mexico. Carl's quite a booster for Mexican vacations, and he'll tell you all about the land "south of the border" at the drop of a sombrero.

*****

We'd like to call your attention to the 10th Annual Broadcast Engineering Conference to be held Monday, April 16 through Wednesday, April 18 at the Conrad Hilton Hotel in Chicago. This is held in connection with the 34th Annual NARTB Convention and is the one place an engineer can go and see the latest in radio and television equipment. Practically every manufacturer exhibits his equipment there, and in addition there is a program of technical papers presented on many items of practical interest to operating engineers. Unfortunately we don't have a detailed program, but it will be published in most technical and trade magazines soon.

Ordinarily this meeting is for NARTB members only; however through a special arrangement with NARTB, NAEB engineers may attend upon payment of a $5.00 daily registration fee. This year the Conference sessions are divided as follows: Color Television Day, Monday, April 16; Radio Day, Wednesday, April 18; Television Day, Thursday, April 19; and a

Joint-Management Engineering meeting will be held Tuesday, April 17. We'd advise you to watch for the program in the trade magazines, and if there's any chance of getting to attend for only a day, we'd advise you to go. You'll find it well worth your while.

*****

We spent February 15, 16 and 17 in Detroit at the invitation of Dr. Paul Rickard of Wayne University. We were there to help alleviate some of the growing pains they were suffering with the installation of a second camera chain and switching equipment. We were working with Keith Kossuth, Wayne's Chief TV Engineer, and were frequently interrupted by the production staff wanting to know when they could incorporate the second camera into their productions.

We had to leave with the intermittent operation still a problem, but apparently we were closing in on its location as Dr. Rickard reports the second camera went into service on February 21 so we anxiously await word from Keith whether the suspected peaking coil was the source of the difficulty.

If you've had to finish out a show on one live camera, without film facilities you can appreciate some of the problems of the operation at Wayne University where they've been operating on one camera since October. This type of operation is also normal at the Public Schools Studio and at Detroit University. However at the Schools Studio they have a film chain with slide and film projectors which provide some needed relief. Detroit U. was given two used DuMont chains, one of which has been completely rebuilt so that now they have two live chains in operation.

We viewed some kinescopes of Wayne U. programs. I offer my sincere congratulations to their production staff and their student crews for the results produced. With an ingenious mirror arrangement attached to their single live camera, they were producing horizontal wipes from a speaker to close-ups of small objects. They projected slides through the control room window into a shadow box with a minimum of black between live talent on camera and slides. And now with two live cameras their producers will really go wild. It all goes to prove that seemingly impossible things are possible if there is the determination to do them.

We had a meeting Friday afternoon (17) with technical personnel of the Detroit Educational Television Foundation at the Public Schools Studio and the Foundation transmitter. They were all on hand to discuss their operational problems - Dean Cook and his studio crew, Gordon Ward, Clem Grzywacz; Joe Jankowski, Jr., and Irving Laing, who operate the transmitter, Bill Grover, the kinescope recorder technician; Roland Renaud and Joe Kiss of the University of Detroit; Keith Kossuth of Wayne U. and the writer. I came away with the impression that educational TV is going places in Detroit.

The Federal Communication Commission needs field intensity measurements on television frequencies. Since this data is no longer required in proof of performance tests, the FCC is unable to revise transmission data in the light of actual measurements as they would prefer. If you have field strength data on your educational TV or FM channel, they would be glad to have it in their files. We're sure they would respect your wishes and keep it confidential if you wish since they maintain a public file and a confidential file. Some of your Electrical Engineering Departments, too, might cooperate with the FCC in transmission surveys done as laboratory or thesis work.

*****

The FCC has partially revised Part 15 of its rules which concern incidental and restricted radiation devices to avoid interference with authorized radio services.

Of greatest general public interest in the new rules is the limitation of amount of permissible radiation from radio receivers operating between 30 and 880 megacycles, which includes FM and TV receivers. Rules, with certain exceptions, will be applicable to all receivers 30 to 880 mc that are manufactured after March 1, 1956. The rules require each receiver to carry a seal certifying compliance with Commission regulations.

*****

Harold Gorsuch of the WOSU-TV staff graces the cover of the February Ohio State University Monthly, the official Alumni publication of the University. He's seen behind a WOSU-TV camera which is looking for someone to become Dean of Broadcasting at Ohio State. The story gives full picture coverage on the WOSU-TV facilities and is headlined: WANTED, TOP Man for TOP Job. The lead for the story is the want-ad which follows:

"WANTED: Man with experience in commercial television, with flair for showmanship AND thorough understanding of educational concepts; must be dedicated to development of possibilities in educational television. Position: heading educational broadcasting at state university. Salary: good. Working conditions: excellent."

The WOSU-TV facilities were designed and installed by Robert C. Higgy, director of WOSU, who will serve as an interim director and then take over the combined technical direction of WOSU and WOSU-TV when the above position is filled.

It isn't exactly red hot news but Berten A. Holmberg has been named Chief Engineer of the Twin City Area Educational Television Corporation which will operate the Channel 2 ETV station in Minneapolis-St. Paul. Bert has been Acting Chief Engineer for TCAETVC since July 1, 1955, and for eleven years prior to that was Chief Engineer for KUOM - the University of Minnesota radio station.

Bert is married and has two children. He received a BEE degree from the University of Minnesota in 1944. He is a member of the Society of Motion Picture and Television Engineers, an alumni member of Kappa Eta Kappa, Professional Engineering Fraternity, a member of the NAEB Engineering Committee and in his spare time operates amateur radio station WØROR.

*****

More news from the "land of sky blue waters."

Lawrence A. Brogger has been appointed Chief Engineer of KUOM effective February 6.

Lawrence (Larry) A. Larson has left KUOM to join the DuMont Company. He will be on the road with its Vitascan demonstration team.

William G. (Gordy) Benson has also left KUOM to join KSTP-TV in St. Paul as a maintenance technician.

*****

Note for program chairmen of professional societies: Mr. Cyril N. Hoyler, Manager, Technical Relations, RCA Laboratories, Princeton, N. J. spoke here on the University of Illinois campus on "The Principles of Color Television." This was a joint AIEE - IRE Student Section meeting. Mr. Hoyler is an excellent speaker and gave a very interesting as well as entertaining demonstration of transistor devices as well as color TV principles. If you have an opportunity to hear him, don't miss it. Or perhaps you could persuade him to give his talk and demonstration at one of your professional society meetings.

*****

Thomas Norwood, formerly an engineer with WJRD, Tuscaloosa, Ala., has been employed as a full time assistant engineer with the University of Alabama Broadcasting Services' television studios.

PROPOSED NAEB TAPE TESTING PROGRAM

Test tapes should be sent to Mr. Edward Kratt, Radio Station WNYE, 29 Fort Greene Place, Brooklyn 1, New York. They should carry an indication of the make, model and serial numbers (both transport mechanism and amplifier) of the recorder used as well as make, model and serial numbers of the test oscillator used.

Tapes should be recorded at 7 1/2 inches per second.

Recording levels should be maintained as indicated below. "Reference recording level" for these tests is defined as the level indicated by maximum peaks on the recorder VI meter. This is usually 0 DB. If a different maximum recording level is used, please so indicate. Record test tapes as follows:

1. (A) At reference recording level, record two minutes of continuous 400 cps tone.
   (B) At 10 DB above reference recording level, record two minutes of continuous 400 cps tone.
   (This may easily be done by inserting a 10 DB pad between oscillator and amplifier for step A and removing it without changing amplifier gain for step B. As the VI meter will doubtless go off scale for step B, one terminal of the VI meter may be disconnected.)
   (The above to establish reference level and to check distortion)

2. Two minutes of no recorded sound (blank tape) accomplished by disconnecting the oscillator and terminating the input of the recording amplifier with a matching resistor.
   (To check noise)

3. At 20 DB below reference level, record one minute of continuous 5000 cps tone followed by two minutes of continuous 7500 cps tone.
   (To check head alignment)

4. At 20 DB below reference recording level, record continuous tones as indicated below. Test oscillator output should be held constant.

400	cps	30 seconds	4000	cps	10 seconds
50	"	10 "	5000	"	10 "
100	"	10 "	6000	"	10 "
200	"	10 "	7500	"	10 "
500	"	10 "	10000	"	10 "
1000	"	10 "	400	"	10 "
2000	"	10 "			

   (To check frequency characteristic)

5. At 20 DB below reference recording level, record five short pulses of 3000 cps tone one second apart. The start of the fifth pulse will be used as a starting time reference.
   After a few seconds silence, record a 3000 cps tone for approximately 14 minutes followed by another few seconds of silence.
   Then, record five more short pulses at one second intervals with the start of the fifth pulse exactly fifteen minutes after the starting time reference noted above.
   (To check timing, flutter and wow)

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